solid state communications

an international journal volume 91



BOARD OF EDITORS

S. ALEXANDER, Rehovot G. BASTARD, Paris

P. BURLET, Grenoble C. CALANDRA, Trieste R. G. CLARK, New South Wales

M. F. COLLINS, Hamilton P. H. DEDERICHS, Jülich

F. J. DI SALVO, Ithaca R. C. DYNES, La Jolla A. L. EFROS, Salt Lake City H. ESCHRIG, Dresden

G. FASOL, Tokyo

R. FIESCHI, Parma Z. GAN, Beijing C. E. T. GONÇALVES DA SILVA, Campinas M. GRYNBERG, Warsaw

G. GÜNTHERODT. Aachen

J. JOFFRIN. Paris H. KAMIMURA, Tokyo

L. V. KELDYSH, Moscow

J. KUHL, Stuttgart

D. J. LOCKWOOD, Ottawa H. v. LÖHNEYSEN, Karlsruhe

S. G. LOUIE. Berkelev B. LUNDQVIST, Göteborg

A. H. MACDONALD, Bloomington E. E. MENDEZ, New York E. MOLINARI, Modena

A. OKIJI, Osaka R. PHILLIPS, Cambridge C. N. R. RAO, Bangalore

T. TSUZUKI, Sendai D. VAN DYCK, Antwerp P. WACHTER, Zürich F. YNDURÁIN, Madrid

A. ZAWADOWSKI, Budapest

Department of Chemical Physics, Weizmann Institute of Science, Rehovot 76100, Israel Laboratoire de Physique de la Matiere, Condensee de l'ENS, 24 rue Lhomond, F-75005 Paris,

Centre d'Etudes Nucléaires, DRF/SPh - MDN, 85x, 38041 Grenoble Cedex, France

National Pulsed Magnet Laboratory, The University of New South Wales, P.O. Box 1, Kensington, New South Wales, Australia, 2033

Department of Physics, McMaster University, Hamilton, Ontario L8S 4M1, Canada Institut für Festkörperforschung der Kernforschungsanlage Jülich, GmbH, 5170 Jülich

1—Postfach 1913, Federal Republic of Germany
Cornell University, Chemistry Department, Baker Laboratory, Ithaca, NY 14853-1301, U.S.A. University of California, Physics Department, La Jolla, CA 92093, U.S.A.

Department of Physics, University of Utah, Salt Lake City, UT 84112, U.S.A

MPG Research Group Electron Systems, TU Dresden, P.O. Box 16, Helmbolzstrasse 20, D-0-8027 Dresden, Federal Republic of Germany University of Tokyo, Institute of Industrial Science, 7-22-1 Roppongi, Minato-ku, Tokyo 106,

Istituto di Fisica, Università degli Studi, 43100 Parma, Italy

Department of Physics, Peking University, Beijing 100871, People's Republic of China Laboratoire Nacional de Luz Sincrotron/CNPq/MCT, Caixa Postal 6192, Campinas 13081 SP, Brazil

Institute of Experimental Physics, University of Warsaw, 00-681 Warsaw, ul. Hoza 69, Poland II. Physikalisches Institut, RWTH Aachen, Templergraben 55, D-5100 Aachen, Federal Republic of Germany

Université Paris-Sud, Batiment 510, 91405 Orsay, France

The Science University of Tokyo, Department of Applied Physics, Faculty of Science, 1-3 Kagurazaka, Shinjuku-ku, Tokyo 162, Japan

P. N. Lebedev Institute, Academy of Sciences of the U.S.S.R. Leninskii Prospect 53, 117924 Moscow, Russia

Max-Planck-Institut für Festkorperforschung, Heisenbergstrasse 1, 70569 Stuttgart, Federal Republic of Germany

IMS, Building M-36, National Research Council, Ottawa, Ontario K1A 0R6, Canada Physikalisches Institut, Universität Karlsruhe (TH), Engesserstrasse 7, 76128 Karlsruhe, Federal

Republic of Germany

University of California, Physics Department, Berkeley, CA 94720, U.S.A. Institute of Theoretical Physics, Chalmers University of Technology, S-412 96 Göteborg,

Department of Physics, Indiana University, Bloomington, IN 47405, U.S.A.

IBM, T. J. Watson Research Center, P.O. Box 218, Yorktown Heights, NY 10598, U.S.A. Dipartimento di Fisica, Universitá di Modena, Via Campi 213/A, 41100 Modena, Italy Department of Applied Physics, Faculty of Engineering, Osaka University, Suita, Osaka 565, Japan

Cavendish Laboratories, Madingley Road, Cambridge CB3 0HE, U.K.

Indian Institute of Science, Bangalore 560012, India

Department of Physics, Faculty of Science, Tohoku University, Aoba-ku, Sendai 980, Japan University of Antwerp (RUCA), Groenenborgerlaan 171, B-2020 Antwerp, Belgium Laboratorium für Festkörperphysik der ETH, CH-8093 Zürich, Hönggerberg, Switzerland

Dpto. de Fisica de la Materia Condensada, C-III, Universidad Autónoma de Madrid, Cantoblanco, 28049-Madrid, Spain

Institute of Physics, Technical University of Budapest, XI.Budafoki út. 8, H-1521 Budapest, Hungary

PRODUCTION EDITOR

M. R. JAKEMAN, Production Department, Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB. U.K.

SOLID STATE COMMUNICATIONS is a companion journal to THE JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS.

Publishing and Advertising Offices: Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A.; Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K. Tel., Oxford (0865) 843000. Fax., Oxford (0865) 843010.

Copyright @ 1994 Elsevier Science Ltd

Published: 4 issues per month (48 issues per year)

Subscription enquiries from customers in North America should be sent to: Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A. and for the remainder of the world to: Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K. Annual Institutional Subscription Rates (1994): North, Central and South America, U.S.\$1945.00. Rest of World £1305.00. Associated Personal Subscription Rates are available on request for those whose institutions are library subscribers. Sterling prices exclude VAT. Non-VAT registered customers in the European Community will be charged the appropriate VAT in addition to the price listed. Prices include postage and insurance and are subject to change without notice.

Back Issues: Back issues of all previously published volumes, in both hard copy and on microform, are available direct from Elsevier Science offices (Oxford, New York). Second Class Postage Paid at Newark NJ and additional Mailing Offices. Postmaster send address corrections to Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A.

- A. Bianconi
- W. Graupner, M. Mauri, J. Stampfl, G. Leising, U. Scherf and K. Müllen
- T. Mori, Y. Shimazu and S. Ikehata
- K. Machida, T. Mitsui, T. Kato and K. Iio
- P. K. Kahol, N. J. Pinto and B. J. McCormick
- S. K. Ramasesha and A. K. Singh
- G. Blasse, C. de Mello Donega, I. Berezovskaya and V. Dotsenko
- P. Bigenwald and B. Gil
- G. Bastard and J. Y. Marzin
- E. B. Starikov
- Ts. Vassilev, I. Avramov, Ts. Velinov and S. Surnev
- M. L. Terranova, M. Rossi, V. Sessa and G. Vitali
- M. Labardi, M. Allegrini, F. Leccabue, B. E. Watts, C. Ascoli and C. Frediani
- P. M. Hui, W. M. Lee and N. F. Johnson
- I. G. Batirev, J. A. Leiro and M. Heinonen
- I. E. Aronov, A. Grincwajg, M. Jonson, R. I. Shekhter and E. N. Bogachek

- 1 On the Fermi liquid coupled with a generalized Wigner polaronic CDW giving high T_c superconductivity
- 7 Photo-excited and doping-induced electronic states in a poly (para-phenylene)-type ladder polymer
- 13 Magnetic susceptibility of compensated Si:P
- 17 Ferroelectricity and structural phase transitions in a hexagonal ABX₃-type antiferromagnetic compound: KNiCl₃
- 21 Charge transport and electron localization in alkyl ring-substituted polyanilines
- 25 Measurement of electrical resistance across the orientational phase transition in solid C_{60} under pressure
- 29 The luminescence of bismuth (III) in indium orthoborate
- 33 A variational calculation of light-hole envelope functions and exciton binding energies in (Ga, In)As–GaAs quantum wells
- 39 Hartree-like calculations of energy levels in quantum wires
- 45 A crystal-orbital calculation on three-dimensional crystal of TTF-TCNQ
- 49 Spectral calorimetry study of relaxation behavior of PMMA
- 55 Development of different carbon phases during diamond film growth by CVD on glassy carbon substrates
- 59 Scanning force and friction microscopy of ferroelectric Pb(Zr, Ti)O₃ thin films
- 65 Theory of scalar wave propagation in periodic composites: a k·p approach
- 71 Atomic magnetic moment and electronic structure of Fe-B amorphous alloys based on X-ray photoelectron spectroscopy
- 75 Microwave-induced oscillations in the conductance of a mesoscopic ring
- 83 Errata
- i Instructions for Authors on the Preparation of Camera-ready Manuscripts
- vii Keywords for Solid State Communications

H. Ebert and GY. Guo	85 Calculation of magnetic X-ray dichroism (MXD) spectra using the spin polarized relativistic linear-muffin-tin-orbital method of band structure calculation
H. Saitoh, K. Saito, Y. Yamamura, H. Matsuyama, K. Kikuchi and I. Ikemoto	89 X-ray study on structural phase transitions of 4.4"-diffuoro-p-terphenyl and 4.4"-diffuoro-p-quaterphenyl
Jian-zhou Wen, Sun-qi Feng, Qing-rong Feng, Hang Yu, Xin Zhu and Bing-jun Quan	93 Influence of the annealing atmosphere on the superconductivity in (Pb,Sr)Sr ₂ (Y,Ca)Cu ₂ O ₃
H. Kamimura and H. Ushio	97 Energy bands, Fermi surface and density of states in the superconducting state of La _{2-x} Sr _x CuO ₄
E. A. Chechetkina	101 Medium-range order in amorphous substances: a modified layer model
G. M. Gusev, U. Gennser, D. K. Maude, J. C. Portal, J. C. Rossi, D. I. Lubyshev and P. Basmaji	105 Dephasing time and interference effects in coupled quantum wells
F. Girgsdies and R. Schöllhorn	111 Spontaneous topotactic oxidation of La ₂ CoO ₄ at room temperature
P. Calvani, M. Capizzi, S. Lupi, P. Maselli, A. Paolone, P. Roy, S-W. Cheong, W. Sadowski and E. Walker	113 Polaron imprints in the infrared spectra of Nd ₂ CuO _{4-x}
J. Q. You, F. Nori and YL. Lin	117 Electronic structure of C_{60} and C_{70} molecules: generating function approach
A. I. Pankrats, G. A. Petrakovskii and K. A. Sablina	121 Microwave resonance absorption in antiferromagnet Bi $_2$ CuO $_4$
A. Boumriche, J. Y. Gesland, A. Bulou, M. Rousseau, J. L. Fourquet and B. Hennion	125 Structure and dynamics of the inverted perovskite BaLiF ₃
H. B. Rose, Ch. Roth, F. U. Hillebrecht and E. Kisker	129 Magnetic linear dichroism in angle-resolved valence band photoemission from Fe(001)
H. C. Poon	133 A Monte Carlo study of the surface segregation of AuCu ₃ (100) near the order-disorder transition temperature
W. J. Song and C. Z. Yang	141 Studies on critical properties for <i>S</i> - 3/2 transverse Ising model in a random field with CEA and DPIR
W. J. Song and C. Z. Yang	145 The critical properties of spin = 3/2 Ising model with a transverse field

R. Matzdorf, A. Goldmann, J. Braun and G. Borstel

D. Chattopadhyay

R. Girlanda and S. Savasta

H.-R. Park

157 Polariton fusion and second harmonic generation in semiconductors
 163 Angle-resolved photoemission from Cu(001): influence of

149 Electron mobility in Cd_{0.8}Zn_{0.2}Te

below-room-temperature

153 Light-induced defect generation of a-Si: H at

163 Angle-resolved photoemission from Cu(001): influence of angular resolution on line-widths

	K. Shiiki, Y. Mitsui and S. Takayanagi	167	Analysis of magnetization structure by calculating magnetostatic energy for multilayered film
	S. Jaziri	171	Effects of electric and magnetic fields on excitons in quantum dots
		i	Keywords for Solid State Communications
-	JULY VO	LUMI	E 91. NUMBER 3
	F. Bartolomé, M. D. Kuz'min, J. Bartolomé, J. Blasco, J. García and F. Sapiña	177	Low-temperature specific heat of NdMO $_3$ (M = Co, Fe, Cr, Ni): magnetic ordering of Nd
	L. M. Sandratskii and J. Kübler	183	Inferred physical properties of UT_2Si_2 (T = Ru, Rh, Pd) from spin-density functional calculations
	R. Rahbi, B. Theys, R. Jones, B. Pajot, S. Öberg, K. Somogyi, M. L. Fille and J. Chevallier	187	Neutralisation of group VI donors by hydrogen in gallium arsenide
	Fu Huaxiang, Ye Ling and Xie Xide	191	Optical properties for graphene microtubules of different geometries
	R. Seshadri, H. N. Aiyer, A. Govindaraj and C. N. R. Rao	195	Electron transport properties of carbon nanotubes
	L. Ducasse and A. Fritsch	201	Effect of basis set on the band structure and Fermi surface of BEDT-TTF-based organic conductors
	G. P. Dai, B. Ctortecka, D. P. Tunstall, M. Jones, I. Gameson and P. P. Edwards	205	Copper NMR studies of the Nd ₂ CuO _{4-x} F _x system
	S. A. Nikitov	209	Nonlinear spin-wave resonance in thin ferromagnetic films
	H. Zheng and KH. Bennemann	213	Variational theory for the ground state of linear <i>E-e</i> Jahn–Teller system: weak- and intermediate-coupling
	Y. D. Woo, T. W. Kang, T. W. Kim, J. Y. Lee, T. C. Kuo and K. L. Wang	219	High-resolution transmission electron microscopy of the CoGa/GaAs heterostructure grown by molecular beam epitaxy
	Z. Hu and W. B. Yelon	223	Structural and magnetic properties of the novel $Nd_3Fe_{29-x}Ti_x$ compound from powder neutron diffraction
	S. B. Roy, A. K. Pradhan and P. Chaddah	227	Possibility of a magnetic transition in ZrV ₂
	K. Kempa, P. Bakshi, D. A. Broido and K. B. Blagoev	231	Polarization of electrons in quantum dashes in magnetic field
	Jian Wang, Wen-cheng Wang, Jia-biao Zheng, Fu-long Zhang, Xiao-yuan Hou, Xun Wang, He-zhou Wang and Xi-guang Zheng	239	9 Temperature-dependent picosecond time-resolved carrier dynamics in visible-light-emitting porous silicon
	S. W. Biernacki	245	Microscopic structure of EL2: a new interpretation of old results
	E. L. Albuquerque	25	Plasmons in doped semiconductor superlattice with charge depletion and a capping layer
	R. M. Mueller, R. Stasch and G. Bergmann	25:	5 Anomalous $T^{1/2}$ law of the dephasing rate in Au films down

to 20 mK

Vol.91, Nos 1-12 Contents

P. Javorský, G. Schaudy, T. Holubar and G. Hilscher	259	Specific heat and susceptibility of PrNi ₂
V. S. Boyko and J. Malinsky	265	Influence of twin boundary thin structure on the superconductive parameters of traditional and high-temperature superconductors
	i	Keywords for Solid State Communications
JULY	VOLUME	E 91, NUMBER 4 1994
R. Pandey and A. Sutjianto	269	Study of structural phase transition in MgSe
S. Giri, K. Ghoshray, R. Ranganathan, A. Roy, B. Bal and A. Ghoshray	273	Frustrated spin-glass like features in KMnFeF ₆ system
V. R. Galakhov, T. P. Surkova, V. I. Sokolov, E. Z. Kurmaev, Chr. Zubrägel, H. Ünlü, M. Neumann, S. A. Permogorov and L. N. Tenishev	279	Transition metal impurities and band offsets in wide gap II–VI semiconductors: $Zn_{1-x}Mn_xSe(Ni)$ compounds
Wang Xue-mei and Zhang Dian-lin	283	The threshold field in $Rb_{0.30}MoO_3$
A. Bianconi and M. Missori	287	The instability of a 2D electron gas near the critical density for a Wigner polaron crystal giving the quantum state of cuprate superconductors
P. A. Kotsanidis, J. K. Yakinthos and E. Roudaut	295	Structure magnétique de TbPdSn à $T = 2 \text{ K}$
S. Marklund and Wang Yong-Liang	301	Influence of the 90° partial dislocation core structure in silicon on energy levels
T. Aste, R. Eggenhöffner and E. Galleani d'Agliano	307	Effects of doping and Cu-substitution in the magnetic susceptibility of the $La_{2-x}Sr_xCu_{1-y}Zn_yO_{4+\delta}$ system
D. D. Smith, M. Wybourne, J. C. Wu, A. DeAnni, ML. LeMeune, R. P. Moerkirk Jr, W. H. Chang and L. Fotiadis	313	A novel technique for the study of defects using quantum wires
T. I. Smirnova, A. I. Smirnov, R. B. Clarkson and R. L. Belford	319	Half-field EPR transitions in synthetic carbohydrate chars
M. A. Ivanov, V. M. Loktev, V. Ya. Mitrofanov, L. D. Fal'kovskaya a		Peculiarities in the electron structure of weakly doped fullerites $A_x C_{60}$ ($x \le 1$)

i Keywords for Solid State Communications

iii Erratum

v Author Index Nos 1-4

AUGUST

A. Ya. Fishman

VOLUME 91, NUMBER 5

1994

CONTENTS

- V. V. Moshchalkov and Y. Bruynseraede
- V. V. Metlushko, M. Baert, R. Jonckheere, 331 Matching effects in Pb/Ge multilayers with the lattice of 'submicron holes

Vol.91	l,Nos	1-12 Contents vii
M. Baenitz, M. Heinze, K. Lüders, H. Werner and Ř. Schlögl		Superconductivity of Rb ₂ CsC ₆₀ : ac response and upper critical field
Feng Yan, Xi-Mao Bao and Ting Gao	341	Photovoltage spectra of silicon/porous silicon heterojunction
S. S. Dubey, P. N. Dheer, R. G. Sharma, M. M. Krishna and Y. S. Reddy		Influence of indium and tantalum as an impurity on the normal and superconducting state properties of <i>in situ</i> prepared Cu–Nb composite wires
S. N. Behera and U. A. Salian	351	Raman scattering in cuprate superconductors: results of a finite wave vector (q) calculation
A. K. Bhattacharya, K. K. Mallick and P. A. Thomas	357	Low temperature synthesis of a bismuth vanadium oxide isomorphous with γ -Bi $_4$ V $_2$ O $_{11}$
P. D. Wang, N. N. Ledentsov, C. M. Sotomayor Torres, S. V. Ivanov, B. Ya. Meltser and P. S. Kop'ev	361	Resonant Raman scattering studies of multilayer (In, Ga, Al) (As, Sb) heterostructures with InAs quantum wells
M. V. Eremin and E. Sigmund	367	On the importance of anisotropic exchange coupling on to the structure of spin-polarized clusters in layered cuprates
S. C. Bayliss, D. A. Hutt, Q. Zhang, N. Danson and A. Smith	371	Local structure of porous silicon
N. S. Averkiev and A. M. Monakhov	377	Size-quantization of heavy holes with large momentum in complex valence band subjected to in-plane magnetic field
J. Blasco and J. García	381	Suppression of metal–semiconductor transition in NdNiO $_{\!3-\delta}$ samples doped with Cu
H. Y. Chu and Z. Ye	387	Lattice condensations in chained polymers
E. E. Tornau, P. J. Kundrotas, S. Lapinskas and A. Rosengren	393	Why does $Y_2Ba_4Cu_7O_{14+x}$ not exhibit a plateau in its $T_c(x)$ dependence? Predictions from oxygen ordering
V. P. Privalko, V. P. Azarenkov, A. V. Baibak and V. N. Novikov	399	Fracton-like heat capacity behavior of heterocyclic polymer networks at low temperatures
K. Kang and B. I. Min	403	Non-Fermi liquid behavior of a one-dimensional Hubbard model
M. Ferhat, A. Zaoui, B. Khelifa and H. Aourag	407	Band structure calculations of Ge _x Si _{1-x}
	i	Keywords for Solid State Communications
AUGUST VO	DLUMI	E 91. NUMBER 6 1994
B. Kuhn-Heinrich, W. Ossau, E. Bangert, A. Waag and G. Landwehr	413	Zeeman pattern of semimagnetic (CdMn)Te/(CdMg)Te quantum wells in inplane magnetic fields
R. Skomski	419	Glass transition: 'spin' fluctuations or free volume?
S. Shabalovskaya, O. Ivanova and A. Dementjev	423	Auger spectra and electronic structure of Ti based B2 compounds

S. Bednarek and J. Adamowski

429 Effect of short-range potential and coupling with phonons on impurity states

viii V	1.91,Nos 1-12 Contents
A. Díaz-Ortiz, F. Aguilera-Granja and J. L. Morán-López	435 Finite size scaling in Ising thin films
M. Ya. Azbel'	439 Superluminal velocity, tunneling traversal time and causality
KU. Neumann, S. Lipinski and K. R. A. Ziebeck	443 Superweak ferrimagnetism arising from strong coupling in paramagnetic systems
A. G. Kazanskii, Mao Yi and Kong Guanglin	447 On the dangling-bond relaxation problem in hydrogenated amorphous silicon
P. Christ, H. Biberacher, H. Müller and K. Andres	451 Magnetization measurements on α-(BEDT-TTF) ₂ KHg(SCN) ₄ [where BEDT-TTF is bis(ethylenedithio)tetrathiafulvalene]
R. V. Vedrinskii, A. I. Taranukhina, L. A. Bugaev and V. L. Kraizman	457 The effect of 3 <i>d</i> -electron excitation of EELFS and EXAFS above $M_{2,3}$ edge of 3 <i>d</i> -transition metals
H. Bednarski, J. Cisowski, J. Voiron, D. Schmitt, J. C. Portal and J. Heimann	461 Magnetic susceptibility of $(Cd_{1-x-y}Zn_yMn_x)_3As_2$
O. Kanert, H. Schulz and J. Albers	465 Nuclear magnetic resonance study of the cubic-to-tetragonal phase transition in BaTiO ₃
M. Nechtschein and F. Genoud	471 On the broadening of the ESR line in presence of air or oxygen in conducting polymers
J. M. Dance, A. Boireau, A. Le Lirzin an B. Lestienne	475 Site occupancy of divalent cobalt in fluorides: a powder ESR study
M. Couzi, M. Moreno and A. G. Breñosa	481 Characterization of NH ₄ Br: Cu ²⁺ crystals: direct evidence of NH ₃ through Raman spectroscopy
T. Scheunemann, S. V. Halilov, J. Henk and R. Feder	487 Spin reversal and circular dichroism in valence-band photoemission from 3d-ferromagnets
S. Scholl, J. Gerschütz, H. Schäfer, F. Fischer, A. Waag and G. Landwehr	491 Persistent photoconductivity in CdTe-based II-VI-semiconductors
	i Keywords for Solid State Communications
AUGUST	VOLUME 91. NUMBER 7 1994

I. I. Mazin, A. I. Liechtenstein, O. Gunnarsson and O. K. Andersen

P. Bezdicka, L. Fournes, A. Wattiaux, J. C. Grenier and M. Pouchard

San Shufa, Fan Yong, Tong Zhigang, Hao Chuncheng, Li Yuqing, Feng Xuebing and Lei Qingquan

X. F. Wang and X. L. Lei

Jinfang Meng, Guangtian Zou, Qiliang Cui. Ziqiang Zhu and Zuliang Du

J. Odin, J. C. Lasjaunias, K. Biljaković, P. Monceau and K. Bechgaard

497 Three-molecular-orbital treatment of the orientational ordering in A3C611

501 Mössbauer characteristics of the Sr₂CoFeO₆ perovskite obtained by electrochemical oxidation

507 Electrical and magnetic properties of new polyacene quinone radical co-polymers synthesized by condensation

513 A simple description of Fröhlich interaction in cylindrical GaAs/AlAs quantum wires

519 Raman spectra and pressure-induced phase transition in nanocrystalline PbZrO3

523 Low temperature specific heat of the spin-density-wave compound (TMTSF)2PF6

¥ 01. 2	1,1408 1-12 Contents
Y. Yacoby	529 Structure factor amplitude and phase determination by a new two beam diffraction interference method
P. Alméras, H. Berger, G. Margaritondo, Jian Ma, C. Quitmann, R. J. Kelley and M. Onellion	535 Co-doped Bi ₂ Sr ₂ CaCu ₂ O _x : Anderson localization and superconductivity
D. Cvetko, V. De Renzi, L. Floreano, A. Morgante and F. Tommasini	539 Deconstruction and roughening transitions on (1×2) Pt $(1 \ 1 \ 0)$
D. N. Mirlin, A. A. Sirenko and R. Planel	545 Resonance Raman scattering by interface phonons in the magnetic field in GaAs/AlAs superlattices
L. Soriano, M. Abbate, D. Alders and J. M. Sanz	551 The bremsstrahlung isochromat spectra of d^0 transition-metal oxides
A. Filipponi, M. Passacantando, L. Lozzi, S. Santucci, P. Picozzi and A. Di Cicco	555 1s shake-up excitations in NaF, NaCl, NaBr, and Na ₂ SO ₄
V. K. Kalevich, V. L. Korenev and I. A. Merkulov	559 Nonequilibrium spin and spin flux in quantum films of GaAs-type semiconductors
Zhi-Zhong Xu	563 A theoretical study for the bond lengths in the Ge_xSi_{1-x} alloys
R. S. Singh, T. Bhimasankaram, G. S. Kumar and S. V. Suryanarayana	567 Dielectric and magnetoelectric properties of Bi ₃ FeTi ₃ O ₁₅
H. Bougrine, S. Sergeenkov, M. Ausloos, R. Cloots and V. V. Gridin	571 Nonequilibrium effects in the thermal conductivity of Bi-based high temperature superconductors
G. Saffarini	577 On topological transitions and chemical ordering in network glasses of the Ge-Ga-S system
Al. A. Andreev, Ya. M. Blanter and Yu. E. Lozovik	581 Microscopic theory of excitations of a quantum dot in strong magnetic field
	i Keywords for Solid State Communications
AUGUST VO	LUME 91, NUMBER 8 1994
L. F. Mattheiss, T. Siegrist and R. J. Cava	587 Superconductivity in the LnNi ₂ B ₂ C intermetallics via boron A _{1g} phonons
G. Feusier, Y. Mi and R. Schaller	591 Low temperature internal friction spectrum of calcium doped polycrystalline YBa ₂ Cu ₃ O ₆₊₃
T. Terashima, S. Uji, H. Aoki, M. Tamura, M. Kinoshita and M. Tokumoto	595 Three-dimensional Fermi surface in θ -(BEDT-TTF) ₂ I ₃
S. Gennari, P. P. Lottici, F. Ricco', G. Attolini and C. Pelosi	599 Raman scattering in GaAs/GaP strained heterostructures grown by MOVPE
Minglang Yan, Shengli Geng and Zheng Yang	603 Effects of amorphous Ti underlayer on magnetic anisotropy of CoCr films
P. E. Van Camp and V. E. Van Doren	607 Structural phase transformation and ground state properties of cadmium telluride
K. Nitsch, K. Knížek and M. Rodová	611 X-ray diffraction study of lead chloride
J. I. Gorina, G. A. Kaljushnaia, V. I. Ktitorov, V. P. Martovitsky, V. V. Rodin, V. A. Stepanov and S. I. Vedeneev	615 Growth from solution-melt in KCl and properties of high-quality low- T_c phase (2.2.0.1) single crystals

Vol.91, Nos 1-12 Contents

x vol.9	1,Nos 1-12 Contents
R. Rajaraman, B. Viswanathan and K. P. Gopinathan	621 Critical helium concentration and its effect on bubble growth in palladium
M. Oguni, Y. Inaguma, M. Itoh and T. Nakamura	627 Calorimetric and electrical studies on the positional disorder of lithium ions in lithium lanthanum titanate
Y. Shi, F. M. Wu, Y. D. Zheng, M. Suezawa, M. Imai and K. Sumino	631 Optical active process of higher order bands in fast neutron irradiated silicon
C. Giannini, L. De Caro and L. Tapfer	635 Observation of a triclinic lattice distortion of In _x Ga _{1-x} As (100)-oriented epitaxial layers by high-resolution double-crystal X-ray diffraction
J. Przesławski, B. Kosturek and Z. Czapla	639 Linear birefringence studies on phase transitions in trichloroacetamide crystal
Wanqing Cao and A. J. Hunt	645 Thermal annealing of photoluminescent Si deposited on silica aerogels
P. Basmaji, G. Surdutovich, R. Vitlina, J. Kolenda, V. S. Bagnato, H. Mohajeri-Moghaddam and N. Peyghambarian	649 Anisotropy investigations and photoluminescence properties of porous silicon
W. G. Park, S. A. Nepijko, A. Fanelsa, E. Kisker, L. Winkeler and G. Güntherodt	655 Temperature dependence in threshold photoemission from high- T_c -superconductors
A. I. Gusarov	661 Efficiency of defects generation due to irradiation in silica
M. G. Patil, V. C. Mahajan, S. D. Lotke, B. V. Bhise and S. A. Patil	667 Electrical resistivity and thermoelectric power of Ti substituted Ni-Cd ferrites
	i Keywords for Solid State Communications
	iii Author Index Nos 1-8
SEPTEMBER VO	LUME 91, NUMBER 9 1994
Z. G. Liu, X. Y. Chen, J. M. Liu, Z. C. Wu and D. Feng	671 Pulsed laser deposition of PZT/LSCO heterostructure for integrated ferroelectric devices
M. Danot, A. M. Afanasov, I. S. Bezverkhy, P. B. Fabritchnyi et J. Rouxel	675 Etude du comportement dynamique des ions dopants a la surface et dans le volume des grains de Cr ₂ O ₃ par spectrométrie Mössbauer de la sonde diamagnetique ¹¹⁹ Sn
S. Darracq, G. Demazeau, P. Fabritchnyi, L. Fournes, I. A. Presniakov, K. V. Pokholok et V. P. Gorkov	681 Etude par spectrométrie Mössbauer de la perovskite CaFe(IV)O ₃ a l'aide d'une sonde diamagnetique ¹¹⁹ Sn
M. Ya. Azbel'	687 Critical lifetime and size in a bacteria colony survival
Qiang Sun, Jianjun Xie and Tao Zhang	691 Impurity effect on chemisorption properties of composite catalysts
G. C. Papavassiliou, I. B. Koutselas, A. Terzis and MH. Whangbo	695 Structural and electronic properties of the natural quantum-well system (C ₆ H ₅ CH ₂ CH ₂ NH ₃) ₂ SnI ₄
Bei Zhang, Ruo-Peng Wang, Xiao-Min Ding, Lun Dai and Shu-Min Wang	699 Observation of laser oscillation without population inversion in InGaAsP microdisk lasers

¥ 01.9	1,1405 1-12 Contents
G. Bacquet, F. Hassen, M. I. Alonso and M. Garriga	703 Spin orientation by optical pumping in In _x Ga _{1-x} As/AlAs multiple quantum wells
Bin Zhu, BE. Mellander and B. Stjerna	709 Infrared spectra of the rubidium nitrate alumina composites
H. Wipf	713 The influence of long-range elastic interactions on the tetragonal-to-orthorhombic phase transition in YBa ₂ Cu ₃ O _x
G. Mauckner, W. Rebitzer, K. Thonke and R. Sauer	717 Quantum confinement effects in absorption and emission of freestanding porous silicon
J. M. Jacob, D. S. Kim, A. Bouchalkha, J. J. Song, J. F. Klem, H. Hou, C. W. Tu and H. Morkoç	721 Spatial characteristics of GaAs, GaAs-like, and AlAs-like LO phonons in GaAs/Al _x Ga _{1-x} As superlattices: the strong x dependence
Hai-Yang Zhou and Shi-Wei Gu	725 Strong coupling polaron in quantum well wire
N. Mironova, V. Skvortsova and U. Ulmanis	731 Near infrared absorption spectra in Co ₃ O ₄
K. Schaumburg, E. Shabanova, J. P. F. Sellschop and T. Anthony	735 Longitudinal and rotating frame spin-lattice relaxation in ¹³ C-enriched diamonds
Zuning Wang and Donglu Shi	741 Transport resistive broadening by avalanche flux motion in high-temperature superconductors: SOC in a driven system
P. Gómez, J. Piqueras and C. Opagiste	747 Luminescence properties of tetragonal $Tl_2Ba_2Cu_1O_{6+\delta}$ superconducting ceramics
M. Martini, G. Spinolo, A. Vedda and C. Arena	751 Phosphorescence and thermally stimulated luminescence of amorphous ${\rm SiO_2}$
G. Dhanaraj and H. L. Bhat	757 X-ray diffraction and second harmonic generation studies on KTiOPO ₄
G. Amaranath, S. Buddhudu and A. Mandelis	761 Nonlinearity and elastic properties of Cr(3+): Al ₂ O ₃ and Ti(3+): Al ₂ O ₃ laser crystals
T. W. Kim and M. Jung	765 Electron and optical phonon interaction in the two-dimensional electron gas in an In _{0.52} Al _{0.48} As/In _{0.53} Ga _{0.47} As single quantum well
	i Forthcoming in Solid State Communications
	iii Keywords for Solid State Communications
	*

SEPTEMBER

VOLUME 91, NUMBER 10

1994

- J. Chaboy, A. Marcelli, J. García, H. Maruyama, L. M. García, K. Kobayashi and L. Bozukov
- F. G. Aliev, H. El Mfarrej, S. Vieira and R. Villar
- N. Mestres, J. M. Calleja, F. G. Aliev and A. I. Belogorokhov
- A. J. Mayur, M. D. Sciacca, I. Miotkowski, G. C. La Rocca, A. K. Ramdas and S. Rodriguez
- 769 On the developing of net Ce magnetic moment upon H₂ absorption in Ce₂Fe₁₄B: an XCMD investigation
- 775 Anomalous ground state of $U_{0.9}Th_{0.1}Be_{13}$: temperature dependence of the resistivity and magnetoresistance
- 779 Electron localization in the disordered conductors TiNiSn and HfNiSn observed by Raman and infrared spectroscopies
- 785 Local modes of substitutional transition metal ions in II–VI semiconductors

Vol.91 Nos 1-12 Contents

XII · VOI.	91,Nos 1-12 Contents
A. F. Carley, M. K. Rajumon, M. W. Roberts and Wang Fancheng	791 Characterization of oxygen adsorbed at Ba-modified Zn(0001) surfaces: evidence for peroxo species
K. W. Cheah and C. H. Choy	795 Wavelength dependence in photosynthesis of porous silicon dot
G. Chełkowska and M. Neumann	799 Electronic structure of $Gd(Al_{1-x}Co_x)_2$ intermetallic compounds
G. Chełkowska	803 Magnetic and electric properties of $Gd(Al_{1-x}Sb_x)_2$ and $Gd(Al_{1-x}Bi_x)_2$ compounds
J. E. Ortega, F. J. Himpsel, Dongqi Li and P. A. Dowben	807 Initial and final state contributions to the core level shifts for Gd(0001)
A. Debernardi and S. Baroni	813 Third-order density-functional perturbation theory: a practical implementation with applications to anharmonic couplings in Si
Liwen Wu, Lingyun Zhou, Bing Wang, Chen Gao, Wenhan Liu and Ziqin Wu	817 Formation of Pd silicides and periodicity in sputtered Pd/Si nanometric multilayers
Z. Pajak and J. Zaleski	821 NMR study of cation motion and phase transitions in tris-guanidinium hexachloroantimonate
R. B. Flippen	825 Pulsed magnetic field effects in high temperature superconductors
M. S. Ashtikar and G. L. Sharma	831 Silver induced formation of Si(111) – $\sqrt{3} \times \sqrt{3}$ structure from hydrogenated amorphous silicon film
G. E. Grechnev, T. Jarlborg, A. S. Panfilov, M. Peter and I. V. Svechkarev	835 The effect of pressure on the electronic structure and magnetic susceptibility of ε -FeSi
S. A. Packiaseeli, R. K. Rajaram and N. Krishnamurthy	839 Elastic behaviour of orthorhombic lead fluoride
B. Jagadeesh, P. K. Rajan, K. Venu and V. S. S. Sastry	843 Order-disorder phase transition and dimethyl ammonium group dynamics in [(CH ₃) ₂ NH ₂] ₃ Sb ₂ Cl ₉ —proton NMR study
F. Masin, D. Gall and G. Gusman	849 $^{13}\mathrm{C}$ NMR spectroscopy of chloroform-solvated- C_{60}
	i Keywords for Solid State Communications
SEPTEMBER VO	OLUME 91. NUMBER 11 1994
N. V. Agrinskaya and V. I. Kozub	853 Effect of preexponential factors on temperature behavior of VRH conductivity

N. V. Agrinskaya and V. I. Kozub		Effect of preexponential factors on VRH conductivity
----------------------------------	--	--

S. Basaki and S. Matsuzaki

L. N. Pfeiffer

H. Wang, J. Shah, T. C. Damen and

P. N. Adams, P. J. Laughlin, A. P. Monkman and N. Bernhoeft

- J. Chabov, A. Marcelli, M. R. Ibarra and 859 Electronic instability in YMn, driven by Ni substitution: an A. del Moral X-ray absorption investigation
 - 865 A new charge transfer system for neutral-ionic transition: tetrathiafulvalene-dimethyldicyanoquinonediimine
 - 869 Polarization-dependent coherent nonlinear optical response in GaAs quantum wells: dominant effects of two-photon coherence between ground and biexciton states
 - 875 A further step towards stable organic metals. Oriented films of polyaniline with high electrical conductivity and anisotropy

Vol.91.Nos 1-12 Contents

xiii

Vol.9	1,Nos	s 1-12 Contents	xiii
Yuankun Lin, Guoxiang Lan and Huafu Wang	879	An irreversible pressure-induced amorphization crystal	n in LiTaO ₃
S. Schlag and HF. Eicke	883	Size driven phase transition in nanocrystalline	BaTiO ₃
E. Hanamura	889	Soliton-like propagation of condensed excitons	
C. Petrillo and F. Sacchetti	895	Spin-dependent correlations in electron liquids: magnetic X-ray scattering experiment	feasibility of
J. H. Han, C. X. Gu and P. K. Lim	901	EXAFS studies on Pr-doped YBCO system	
T. Tsubo and K. Nasu	907	Theory for exciton effects on light absorption sptype C ₆₀ crystal	ectra of f.c.c.
T. Figielski, A. Makosa, T. Wosiński, P. C. Harness and K. E. Singer	913	Electron-phonon interaction during resonathrough a double-barrier heterostructure	nt tunneling
F. J. Owens	919	A.c. magnetic field induced microwave absortemperature superconductor $Tl_2Ba_2Ca_2Cu_3O_3$	ption in high
A. Bhargava, A. Williamson, M. Singh, Y. K. Vijay and I. P. Jain	923	Influence of particle size on positron polycrystalline bismuth	lifetimes in
	i	Keywords for Solid State Communications	
SEPTEMBER VO	LUMI	E 91, NUMBER 12	1994
K. Le Dang, G. Dhalenne, J. P. Renard, A. Revcolevschi and P. Veillet	927	Cu NMR study of a single crystal of the spin-Pei CuGeO ₃	erls compound
M. Gurioli, J. Martinez-Pastor, A. Vinattieri and M. Colocci	931	The Stokes shift in good quality quantum well	structures
R. Ristić and E. Babić	937	Electronic band structure and magnetic effer $Zr_2(Ni_{1-x}M_x)_1$ glassy alloys	cts in ternary
V. I. Zubov, A. A. Caparica, N. P. Tretiakov and J. F. Sanchez Ortiz	941	On thermodynamic properties of crystals in region	he metastable
Wei-xi Chen, Peng-fei Jiao, Shu-min Wang, Ying-hua Zou, Zong-ju Xia and Ping Yuan	945	5 Subpicosecond carrier lifetime in InP	
Ta-Ryeong Park	949	Photoluminescence quenching by phonons as sodium cryptand sodide	nd polarons in
A. Pawlicka, E. C. Pereira, R. M. Faria, L. O. S. Bulhões, O. R. Nascimento and L. Walmsley	95.	3 Non ohmic gigahertz conductivity in press ClO ₄ doped poly(3-methylthiophene)	sed pellets of
J. I. Juaristi, J. Z. Wu, J. A. Nobel, S. B. Trickey and J. R. Sabin	95	7 On the metallization of the LiF monolayer	
R. G. Jordan, S. L. Qiu, S. S. Cang, W. Wang and V. L. Moruzzi	96	1 Local Fe moments in α- and γ-phase Fe-rich	Fe-Ni alloys
F. L. Freire Jr, C. A. Achete, R. S. Brusa, G. Mariotto, X. T. Teng and A. Zecca	96	5 Investigation of voids distribution in amorphou carbon nitride films by positron annihilation a evolution experiments	

Vol.91, Nos 1-12 Contents

Liu Wei, Wang Qun, X. K. Sun, Zhao Xin-guo, Zhang Zhi-dong, Xiao Qun-feng, Zhao Tong and

Y. C. Chuang

T. Mohri

Z. Czapla, J. Przesławski and H. Schlemmbach

O. Andersson and H. Suga

S. Iacobucci, M. Montagnoli, M. Sancrotti,

G. Rossi and M. Sacchi

971 Structural and magnetic properties of mechanically alloyed

975 Effective interaction energies within the pair interaction model under a dimensional constraint

981 Linear birefringence studies in [(CH₃)₂NH₂]₅Cd₃Cl₁₁ crystal

985 Thermal conductivity of low-density amorphous ice

989 Absorption spectroscopy at the Cu-2p edges in Cu/Si(111) 7×7 interface

i Keywords for Solid State Communications

iii Author Index Nos 1-12

 $Sm_x(Fe_{1-y}Co_y)_{100-x}$ nitrides

AUTHOR INDEX

Abbate, M. (7) 551 Achete, C. A. (12) 965 Adamowski, J. (6) 429 Adams, P. N. (11) 875 Afanasov, A. M. (9) 675 Agrinskaya, N. V. (11) 853 Aguilera-Granja, F. (6) 435 Aiver, H. N. (3) 195 Albers, J. (6) 465 Albuquerque, E. L. (3) 251 Alders, D. (7) 551 Aliev, F. G. (10) 775, 779 Allegrini, M. (1) 59 Alméras, P. (7) 535 Alonso, M. I. (9) 703 Amaranath, G. (9) 761 Andersen, O. K. (7) 497 Andersson, O. (12) 985 Andreev, Al. A. (7) 581 Andres, K. (6) 451 Anthony, T. (9) 735 Aoki, H. (8) 595 Aourag, H. (5) 407 Arena, C. (9) 751 Aronov, I. E. (1) 75 Ascoli, C. (1) 59 Ashtikar, M. S. (10) 831 Aste, T. (4) 307 Attolini, G. (8) 599 Ausloos, M. (7) 571 Averkiev, N. S. (5) 377 Avramov, I. (1) 49 Azarenkov, V. P. (5) 399 Azbel, M. Ya. (6) 439, (9) 687

Babić, E. (12) 937 Bacquet, G. (9) 703 Baenitz, M. (5) 337 Baert, M. (5) 331 Bagnato, V. S. (8) 649 Baibak, A. V. (5) 399 Bakshi, P. (3) 231 Bal, B. (4) 273 Bangert, E. (6) 413 Baroni, S. (10) 813 Bartolomé, F. (3) 177 Bartolomé, J. (3) 177 Basaki, S. (11) 865 Basmaji, P. (2) 105, (8) 649 Bastard, G. (1) 39 Batirev, I. G. (1) 71 Bayliss, S. C. (5) 371 Bechgaard, K. (7) 523 Bednarek, S. (6) 429 Bednarski, H. (6) 461 Behera, S. N. (5) 351 Bei Zhang (9) 699 Belford, R. L. (4) 319 Belogorokhov, A. I. (10) 779 Bennemann, K.-H. (3) 213 Berezovskaya, I. (1) 29 Berger, H. (7) 535 Bergmann, G. (3) 255 Bernhoeft, N. (11) 875 Bezdicka, P. (7) 501 Bezverkhy, I. S. (9) 675 Bhargava, A. (11) 923 Bhat, H. L. (9) 757 Bhattacharya, A. K. (5) 357 Bhimasankaram, T. (7) 567 Bhise, B. V. (8) 667 Bianconi, A. (1) 1, (4) 287 Biberacher, H. (6) 451 Biernacki, S. W. (3) 245 Bigenwald, P. (1) 33 Biljaković, K. (7) 523 Bin Zhu (9) 709 Bing Wang (10) 817

Bing-iun Ouan (2) 93 Blagoev, K. B. (3) 231 Blanter, Ya. M. (7) 581 Blasco, J. (3) 177, (5) 381 Blasse, G. (1) 29 Bogachek, E. N. (1) 75 Boireau, A. (6) 475 Borstel, G. (2) 163 Bouchalkha, A. (9) 721 Bougrine, H. (7) 571 Boumriche, A. (2) 125 Boyko, V. S. (3) 265 Bozukov, L. (10) 769 Braun, J. (2) 163 Brėnosa, A. G. (6) 481 Broido, D. A. (3) 231 Brusa, R. S. (12) 965 Bruynseraede, Y. (5) 331 Buddhudu, S. (9) 761 Bugaev, L. A. (6) 457 Bulhoes, L. O. S. (12) 953 Bulou, A. (2) 125

Calleia, J. M. (10) 779 Calvani, P. (2) 113 Cang, S. S. (12) 961 Caparica, A. A. (12) 941 Capizzi, M. (2) 113 Carley, A. F. (10) 791 Cava, R. J. (8) 587 Chaboy, J. (10) 769, (11) 859 Chaddah, P. (3) 227 Chang, W. H. Jr. (4) 313 Chattopadhyay, D. (2) 149 Cheah, K. W. (10) 795 Chechetkina, E. A. (2) 101 Chełkowska, G. (10) 799, 803 Chen, X. Y. (9) 671 Chen Gao (10) 817 Cheong, S.-W. (2) 113 Chevallier, J. (3) 187 Choy, C. H. (10) 795 Christ, P. (6) 451 Chu, H. Y. (5) 387 Chuang, Y. C. (12) 971 Cisowski, J. (6) 461

Clarkson, R. B. (4) 319 Cloots, R. (7) 571 Colocci, M. (12) 931 Couzi, M. (6) 481 Ctortecka, B. (3) 205 Cvetko, D. (7) 539 Czapla, Z. (8) 639, (12) 981

Dai, G. P. (3) 205 Damen, T. C. (11) 867 Dance, J. M. (6) 475 Danot, M. (9) 675 Danson, N. (5) 371 Darracq, S. (9) 681 De Caro, L. (8) 635 De Renzi, V. (7) 539 DeAnni, A. (4) 313 Debernardi, A. (10) 813 Demazeau, G. (9) 681 Dementjev, A. (6) 423 Dhalenne, G. (12) 927 Dhanaraj, G. (9) 757 Dheer, P. N. (5) 345 Di Cicco, A. (7) 555 Díaz-Ortiz, A. (6) 435 Donglu Shi (9) 741 Dongqi Li (10) 807 Dotsenko, V. (1) 29 Dowben, P. A. (10) 807 Dubey, S. S. (5) 345 Ducasse, L. (3) 201

Ebert, H. (2) 85 Edwards, P. P. (3) 205 Eggenhöffner, R. (4) 307 Eicke, H.-F. (11) 883 Eremin, M. V. (5) 367

Fabritchnyi, P. B. (9) 675, 681 Fal'kovskaya, L. D. (4) 325 Fan Yong (7) 507 Fanelsa, A. (8) 655 Faria, R. M. (12) 953 Feder, R. (6) 487 Feng, D. (9) 671 Feng Yan (5) 341 Feng Xuebing (7) 507 Ferhat, M. (5) 407 Feusier, G. (8) 591 Figielski, T. (11) 913 Filipponi, A. (7) 555 Fille, M. L. (3) 187 Fischer, F. (6) 491 Fishman, A. Ya. (4) 325 Flippen, R. B. (10) 825 Floreano, L. (7) 539 Fotiadis, L. (4) 313 Fournes, L. (7) 501, (9) 681 Fourquet, J. L. (2) 125 Frediani, C. (1) 59 Freire, F. L. Jr. (12) 965 Fritsch, A. (3) 201 Fu Huaxiang (3) 191 Fu-long Zhang (3) 239

Galakhov, V. R. (4) 279 Gall, D. (10) 849 Galleani d'Agliano, E. (4) 307 Gameson, I. (3) 205 García, J. (3) 177, (5) 381, (10) 769 García, L. M. (10) 769 Garriga, M. (9) 703 Gennari, S. (8) 599 Gennser, U. (2) 105 Genoud, F. (6) 471 Gerschütz, J. (6) 491 Gesland, J. Y. (2) 125 Ghoshray, A. (4) 273 Ghoshray, K. (4) 273 Giannini, C. (8) 635 Gil, B. (1) 33 Girgsdies, F. (2) 111 Giri, S. (4) 273 Girlanda, R. (2) 157 Goldmann, A. (2) 163 Gómez, P. (9) 747 Gopinathan, K. P. (8) 621 Gorina, J. I. (8) 615 Gorkov, V. P. (9) 681 Govindaraj, A. (3) 195 Graupner, W. (1) 7

Grechnev, G. E. (10) 835

Grenier, J. C. (7) 501 Gridin, V. V. (7) 571 Grincajg, A. (1) 75 Gu, C. X. (11) 901 Guangtian Zou (7) 519 Gunnarsson, O. (7) 497 Güntherodt, G. (8) 655 Guo, G.-Y. (2) 85 Guoxiang Lan (11) 879 Gurioli, M. (12) 931 Gusarov, A. I. (8) 661 Gusev, G. M. (2) 105 Gusman, G. (10) 849

Hai-Yang Zhou (9) 725 Halilov, S. V. (6) 487 Han, J. H. (11) 901 Hanamura, E. (11) 889 Hang Yu (2) 93 Hao Chuncheng (7) 507 Harness, P. C. (11) 913 Hassen, F. (9) 703 Haupt, R. (1) 83 He-zhou Wang (3) 239 Heimann, J. (6) 461 Heinonen, M. (1) 71 Heinze, M. (5) 337 Henk, J. (6) 487 Hennion, B. (2) 125 Hillebrecht, F. U. (2) 129 Hilscher, G. (3) 259 Himpsel, F. J. (10) 807 Holubar, T. (3) 259 Hou, H. (9) 721 Hu, Z. (3) 223 Huafu Wang (11) 879 Hui, P. M. (1) 65 Hunt, A. J. (8) 645 Hutt, D. A. (5) 371

Iacobucci, S. (12) 989 Ibarra, M. R. (11) 859 Ikehata, S. (1) 13 Ikemoto, I. (2) 89 Ilo, K. (1) 17 Imai, M. (8) 631 Inaguma, Y. (8) 627 Itoh, M. (8) 627 Ivanov, M. A. (4) 325 Ivanov, S. V. (5) 361 Ivanova, O. (6) 423

Jacob, J. M. (9) 721 Jagadeesh, B. (10) 843 Jain, I. P. (11) 923 Jarlborg, T. (10) 835 Javorsky, P. (3) 259 Jaziri, S. (2) 171 Jia-biao Zheng (3) 239 Jian Wang (3) 239 Jian Ma (7) 535 Jian-zhou Wen (2) 93 Jianjun Xie (9) 691 Jinfang Meng (7) 519 Johnson, N. F. (1) 65 Jonckheere, R. (5) 331 Jones, M. (3) 205 Jones, R. (3) 187 Jonson, M. (1) 75 Jordan, R. G. (12) 961 Juaristi, J. I. (12) 9: 7 Jung, M. (9) 765

Kahol, P. K. (1) 21 Kalevich, V. K. (7) 559 Kaljushnaia, G. A. (8) 615 Kamimura, H. (2) 97 Kanert, O. (6) 465 Kang, K. (5) 403 Kang, T. W. (3) 219 Kato, T. (1) 17 Kazanskii, A. G. (6) 447 Kelley, R. J. (7) 535 Kempa, K. (3) 231 Khelifa, B. (5) 407 Kikuchi, K. (2) 89 Kim, D. S. (9) 721 Kim, T. W. (3) 219, (9) 765 Kinoshita, M. (8) 595 Kisker, E. (2) 129, (8) 655 Klem, J. F. (9) 721 Knížek, K. (8) 611

Kobayashi, K. (10) 769 Kolenda, J. (8) 649 Kong Guanglin (6) 447 Kop'ev, P. S. (5) 361 Korenev, V. L. (7) 559 Kosturek, B. (8) 639 Kotsanidis, P. A. (4) 295 Koutselas, I. B. (9) 695 Kozub, V. I. (11) 853 Kraizman, V. L. (6) 457 Krishna, M. M. (5) 345 Krishnamurthy, N. (10) 839 Ktitorov, V. I. (8) 615 Kübler, J. (3) 183 Kuhn-Heinrich, B. (6) 413 Kumar, G. S. (7) 567 Kundrotas, P. J. (5) 393 Kuo, T. C. (3) 219 Kurmaev, E. Z. (4) 279 Kuz'min, M. D. (3) 177

La Rocca, G. C. (10) 785 Labardi, M. (1) 59 Landwehr, G. (6) 413, 491 Lapiinskas, S. (5) 393 Lasjaunias, J. C. (7) 523 Laughlin, P. J. (11) 875 Le Lirzin, A. (6) 475 Le Dang, K. (12) 927 Leccabue, F. (1) 59 Ledentsov, N. N. (5) 361 Lee, W. M. (1) 65 Lee, J. Y. (3) 219 Lei, X., L. (7) 513 Lei Qingquan (7) 507 Leiro, J. A. (1) 71 Leising, G. (1) 7 LeMeune, M.-L. (4) 313 Lestienne, B. (6) 475 Li Yuqing (7) 507 Liechtenstein, A. I. (7) 497 Lim, P. K. (11) 901 Lin, Y.-L. (2) 117 Lingyun Zhou (10) 817 Lipinski, S. (6) 443 Liu, Z. G. (9) 671

Liu, J. M. (9) 671 Liu Wei (12) 971 Liwen Wu (10) 817 Loktev, V. M. (4) 325 Lotke, S. D. (8) 667 Lottici, P. P. (8) 599 Lozovik, Yu. E. (7) 581 Lozzi, L. (7) 555 Lubyshev, D. I. (2) 105 Lüders, K. (5) 337 Lun Dai (9) 699 Lupi, S. (2) 113

Machida, K. (1) 17 Mahajan, V. C. (8) 667 Makosa, A. (11) 913 Malinsky, J. (3) 265 Mallick, K. K. (5) 357 Mandelis, A. (9) 761 Mao Yi (6) 447 Marcelli, A. (10) 769 Marcelli, A. (11) 859 Margaritondo, G. (7) 535 Mariotto, G. (12) 965 Marklund, S. (4) 301 Martinez-Pastor, J. (12) 931 Martini, M. (9) 751 Martovitsky, V. P. (8) 615 Maruyama, H. (10) 769 Marzin, J. Y. (1) 39 Maselli, P. (2) 113 Masin, F. (10) 849 Matsuyama, H. (2) 89 Matsuzaki, S. (11) 865 Mattheiss, L. F. (8) 587 Matzdorf, R. (2) 163 Mauckner, G. (9) 717 Maude, D. K. (2) 105 Mauri, M. (1) 7 Mayur, A. J. (10) 785 Mazin, I. I. (7) 497 McCormick, B. J. (1) 21 Mellander, B.-E. (9) 709 Mello Donega, C. de (1) 29 Meltser, B. Ya. (5) 361

Merkulov, I. A. (7) 559

Mestres, N. (10) 779

Metlushko, V. V. (5) 331 Mfarrei, H. El. (10) 775 Mi, Y. (8) 591 Min, B. I. (5) 403 Minglang Yan (8) 603 Miotkowski, I. (10) 785 Mirlin, D. N. (7) 545 Mironova, N. (9) 731 Missori, M. (4) 287 Mitrofanov, V. Ya. (4) 325 Mitsui, T. (1) 17 Mitsui, Yu. (2) 167 Moerkirk, R. P. (4) 313 Mohajeri-Moghaddam, H. (8) 649 Mohri, T. (12) 975 Monakhov, A. M. (5) 377 Monceau, P. (7) 523 Monkman, A. P. (11) 875 Montagnoli, M. (12) 989 Moral, A. del. (11) 859 Morán-López, J. L. (6) 435 Moreno, M. (6) 481 Morgante, A. (7) 539 Mori, F. (2) 117 Mori, T. (1) 13 Morkoc, H. (9) 721 Moruzzi, V. L. (12) 961 Moshchalkov, V. V. (5) 331 Mueller, R. M. (3) 255 Müllen, K. (1) 7 Müller, H. (6) 451

Nakamura, T. (8) 627
Nascimento, O. R. (12) 953
Nasu, K. (11) 907
Nechtschein, M. (6) 471
Nepiijko, S. A. (8) 655
Neumann, K.-U. (6) 443
Neumann, M. (4) 279, (10) 799
Nikitov, S. A. (3) 209
Nitsch, K. (8) 611
Nobel, J. A. (12) 957
Novikov, V. N. (5) 399

Öberg, S. (3) 187 Odin, J. (7) 523 Oguni, M. (8) 627 Onellion, M. (7) 535 Opagiste, C. (9) 747 Ortega, J. E. (10) 807 Ossau, W. (6) 413 Owens, F. J. (11) 919

Packiaseeli, S. A. (10) 839 Pajak, Z. (10) 821 Pajot, B. (3) 187 Pandey, R. (4) 269 Panfilov, A. S. (10) 835 Pankrats, A. I. (2) 121 Paolone, A. (2) 113 Papavassiliou, G. C. (9) 695 Park, W. G. (8) 655 Passacantando, M. (7) 555 Patil, M. G. (8) 667 Patil, S. A. (8) 667 Pawlicka, A. (12) 953 Pelosi, C. (8) 599 Peng-fei Jiao (12) 945 Pereira, E. C. (12) 953 Permogorov, S. A. (4) 279 Peter, M. (10) 835 Petrakovskii, G. A. (2) 121 Petrillo, C. (11) 895 Peyghambarian, N. (8) 649 Pfeiffer, L. N. (11) 867 Picozzi, P. (7) 555 Ping Yuan (12) 945 Pinto, N. J. (1) 21 Piqueras, J. (9) 747 Planel, R. (7) 545 Pokholok, K. V. (9) 681 Poon, H. C. (2) 133 Portal, J. C. (2) 105, (6) 461 Pouchard, M. (7) 501 Pradhan, A. K. (3) 227 Presniakov, I. A. (9) 681 Privalko, V. P. (5) 399 Przeslawski, J. (8) 639 Przesławski, J. (12) 981

Qiang Sun (9) 691 Qiliang Cui (7) 519 Qing-rong Feng (2) 93 Qiu, S. L. (12) 961 Quitmann, C. (7) 535

Rahbi, R. (3) 187 Rajan, P. K. (10) 843 Rajaram, R. K. (10) 839 Rajaraman, R. (8) 621 Raiumon, M. K. (10) 791 Ramasesha, S. K. (1) 25 Ramdas, A. K. (10) 785 Ranganathan, R. (4) 273 Rao, C. N. R. (3) 195 Rebitzer, W. (9) 717 Reddy, Y. S. (5) 345 Renard, J. P. (12) 927 Revcolevschi, A. (12) 927 Ricco, F. (8) 599 Ristić, R. (12) 937 Roberts, M. W. (10) 791 Rodin, V. V. (8) 615 Rodová, M. (8) 611 Rodriguez, S. (10) 785 Rose, H. B. (2) 129 Rosengren, A. (5) 393 Rossi, J. C. (2) 105 Rossi, M. (1) 55 Rossi, G. (12) 989 Roth, Ch. (2) 129 Roudaut, E. (4) 295 Rousseau, M. (2) 125 Rouxel, J. (9) 675 Roy, A. (4) 273 Roy, P. (2) 113 Roy, S. B. (3) 227 Ruo-Peng Wang (9) 699

Sabin, J. R. (12) 957 Sablina, K. A. (2) 121 Sacchetti, F. (11) 895 Sacchi, M. (12) 989 Sadowski, W. (2) 113 Saffarini, G. (7) 577 Saito, K. (2) 89 Saitoh, H. (2) 89 Salian, U. A. (5) 351 San Shufa (7) 507

Sanchez Ortiz, J. F. (12) 941

Sancrotti, M. (12) 989

Sand atskii, L. M. (3) 183

Santucci, S. (7) 555

Sanz, J. M. (7) 551

Sapina, F. (3) 177

Sastry, V. S. S. (10) 843

Sauer, R. (9) 717

Savasta, S. (2) 157

Schäfer, H. (6) 491

Schaller, R. (8) 591

Schaudy, G. (3) 259

Schaumburg, K. (9) 735

Scherf, U. (1) 7

Scheunemann, T. (6) 487

Schlag, S. (11) 883

Schlemmbach, H. (12) 981

Schlögl, R. (5) 337

Schmitt, D. (6) 461

Scholl, S. (6) 491

Schöllhorn, R. (2) 111

Schulz, H. (6) 465

Sciacca, M. D. (10) 785

Sellschop, J. P. F. (9) 735

Sergeenkov, S. (7) 571

Seshadri, R. (3) 195

Sessa, V. (1) 55

Shabalovskaya, S. (6) 423

Shabanova, E. (9) 735

Shah, J. (11) 867

Sharma, R. G. (5) 345

Sharma, G. L. (10) 831

Shekhter, R. I. (1) 75

Shengli Geng (8) 603

Shi, Y. (8) 631

Shi-Wei Gu (9) 725

Shiiki, K. (2) 167

Shimazu, Y. (1) 13

Shu-Min Wang (9) 699, (12) 945

Siegrist, T. (8) 587

Sigmund, E. (5) 367

Singer, K. E. (11) 913

Singh, R. S. (7) 567

Singh, A. K. (1) 25 Singh, M. (11) 923 Sirenko, A. A. (7) 545

Skomski, R. (6) 419

Skvortsova, V. (9) 731

Smirnov, A. I. (4) 319

Smirnova, T. I. (4) 319

Smith, A. (5) 371

Smith, D. D. (4) 313

Sokolov, V. I. (4) 279

Somogyi, K. (3) 187

Song, W. J. (2) 141, 145

Song, J. J. (9) 721

Soriano, L. (7) 551

Sotomayor Torres, C. M. (5) 361

Spinolo, G. (9) 751

Stampfl, J. (1) 7

Starikov, E. B. (1) 45

Stasch, R. (3) 255

Stepanov, V. A. (8) 615

Stjerna, B. (9) 709

Suezawa, M. (8) 631

Suga, H. (12) 985

Sumino, K. (8) 631

Sun, X. K. (12) 971

Sun-qi Feng (2) 93

Surdutovich, G. (8) 649

Surkova, T. P. (4) 279

Surney, S. (1) 49

Suryanarayana, S. V. (7) 567

Sutjianto, A. (4) 269

Svechkarev, I. V. (10) 835

Ta-Ryeong Park (12) 949

Takayanagi, S. (2) 167

Tamura, M. (8) 595

Tao Zhang (9) 691

Tapfer, L. (8) 635

Taranukhina, A. I. (6) 457

Teng, X. T. (12) 965

Tenishev, L. N. (4) 279

Terashima, T. (8) 595

Terranova, M. L. (1) 55

Terzis, A. (9) 695

Theys, B. (3) 187

Thomas, P. A. (5) 357

Thonke, K. (9) 717

Ting Gao (5) 341

Tommasini, F (7) 539
Tong Zhigang (7) 507
Tornau, E. E. (5) 393
Tretiakov, N. P. (12) 941
Trickey, S. B. (12) 957
Tsubo, T. (11) 907
Tu, C. W. (9) 721
Tunstall, D. P. (3) 205

Uji, S. (8) 595 Ulmanis, U. (9) 731 Ünlü, H. (4) 279 Ushio, H. (2) 97

Van Camp, P. E. (8) 607 Van Doren, V. E. (8) 607 Vassilev, T. (1) 49 Vedda, A. (9) 751 Vedeneev, S. I. (8) 615 Vedrinskii, R. V. (6) 457 Veillet, P. (12) 927 Velinov, T. (1) 49 Venu, K. (10) 843 Vieira, S. (10) 775 Vijay, Y. K. (11) 923 Villar, R. (10) 775 Vinattieri, A. (12) 931 Viswanathan, B. (8) 621 Vitali, G. (1) 55 Vitlina, R. (8) 649 Voiron, J. (6) 461

Waag, A. (6) 413, 491
Walker, E. (2) 113
Walmsley, L. (12) 953
Wang, K. L. (3) 219
Wang Yong-Liang (4) 301
Wang, X. F. (7) 513
Wang Xue-mei (4) 283
Wang, P. D. (5) 361
Wang Fancheng (10) 791
Wang, H. (11) 867
Wang Qun (12) 971
Wang, W. (12) 961
Wanqing Cao (8) 645
Wattiaux, A. (7) 501

Watts, B. E. (1) 59 Wei-xi Chen (12) 945 Wen-cheng Wang (3) 239 Wendler, L. (1) 83 Wenhan Liu (10) 817 Werner, H. (5) 337 Whangbo, M.-H. (9) 695 Williamson, A. (11) 923 Winkeler, L. (8) 655 Wipf, H. (9) 713 Woo, Y. D. (3) 219 Wosiński, T. (11) 913 Wu, J. C. (4) 313 Wu, Z. C. (9) 671 Wu, F. M. (8) 631 Wu, J. Z. (12) 957 Wybourne, M. (4) 313

Xi-guang Zheng (3) 239 Xi-Mao Bao (5) 341 Xiao Qun-feng (12) 971 Xiao-Min Ding (9) 699 Xiao-yuan Hou (3) 239 Xie Xide (3) 191 Xin Zhu (2) 93 Xun Wang (3) 239

Yacoby, Y. (7) 529
Yakinthos, J. K. (4) 295
Yamamura, Y. (2) 89
Yang, C. Z. (2) 141, 145
Yang, H. (3) 213
Ye Ling (3) 191
Ye, Z. (5) 387
Yelon, W. B. (3) 223
Ying-hua Zou (12) 945
You, J. Q. (2) 117
Yuankun Lin (11) 879

Zaleski, J. (10) 821 Zaoui, A. (5) 407 Zecca, A. (12) 965 Zhang Dian-lin (4) 283 Zhang, Q. (5) 371 Zhang Zhi-dong (12) 971 Zhao Xin-guo (12) 971 Zhao Tong (12) 971 Zheng, Y. D. (8) 631 Zheng Yang (8) 603 Zhi-Zhong Xu (7) 563 Ziebeck, K. R. A. (6) 443 Ziqiang Zhu (7) 519

Ziqin Wu (10) 817 Zong-ju Xia (12) 945 Zubov, V. I. (12) 941 Zubrägel, Chr. (4) 279 Zuliang Du (7) 519 Zuning Wang (9) 741

